

# EUROPEAN PATENT OFFICE

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## Patent Abstracts of Japan

PUBLICATION NUMBER : 02256856  
 PUBLICATION DATE : 17-10-90

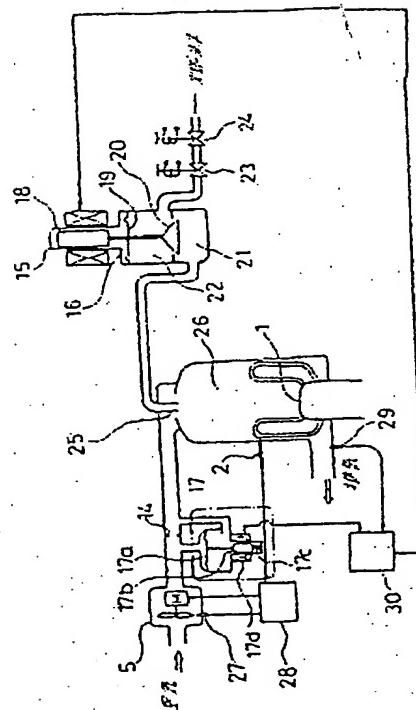
APPLICATION DATE : 28-03-89  
 APPLICATION NUMBER : 01077725

APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : KOSEKI HIDEKI;

INT.CL. : F02G 1/047

TITLE : HEATING DEVICE FOR EXTERNAL  
 COMBUSTION ENGINE



**ABSTRACT :** PURPOSE: To carry out a good performance of combustion at a specified excess air factor in compliance with the rate of air blow by conducting the control on the basis of the wind amount sensing output and the temp. sensing output so that the ratio of the amount of fuel supply to the rate of air blow.

CONSTITUTION: The rate of air blow  $Q_a$  is proportionate to the difference of the pressure  $P_c$  in a combustion chamber 26 from the atmospheric pressure  $P_0$ . This provides measurability for the pressure  $P_c$  in the combustion chamber with respect to the rate of air blow  $Q_a$  in compliance with a temp. signal given by a temp. sensor 29, which represents the gas temp. in the combustion chamber 26, to give information about the electrical amount to be fed to an electronically controlled gas proportioned valve 15 for obtaining the rate of fuel flow in accordance with the rate of air blow  $Q$ . In this manner the rate of air blow to the combustion chamber 26 and the temp. representative for the chamber are sensed, and on the basis of outputs therefrom an electrical amount is fed which shall be corresponding to the proportioned valve 15 with governor function used for supplying the fuel, and thus the excess air factor is adjusted.

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